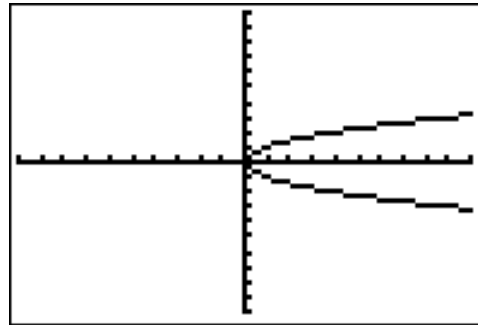


State whether or not the relation is a function. If it is a function, is it one-to-one.

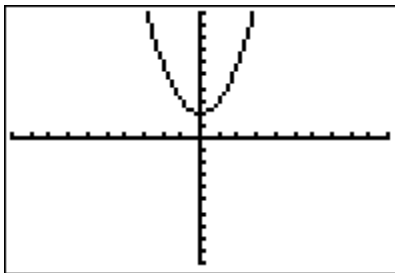
1. $\{(-2,4), (-1,1), (0,0), (1,1), (2,4)\}$

2.



Find the domain and range for each function.

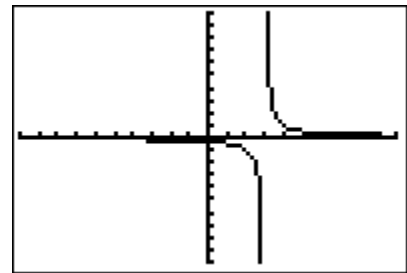
3 and 4



3. Domain = _____

4. Range = _____

5 and 6 $y = \frac{1}{x-3}$



5. Domain = _____

6. Range = _____

Given $f(x) = x^2 - 2x + 3$, $g(x) = 3x - 2$, find the following:

7. $f(-2)$

8. $g(a+1)$

Find the x-intercept and y-intercept of the graph of $2x - 3y = -6$

9. x-intercept = _____

10. y-intercept = _____

11. Write the equation $y = \frac{-2}{3}x - 2$ in **standard form**.

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Find the slope of the line that passes through each pair of points.

12. $(-7, -6)$ and $(3, -6)$

13. $(4, 3)$ and $(7, -2)$

Find the slope and y-intercept of the graph of each equation.

14. $3x = -15 + 5y$

15. $2x - 5y = 10$

slope _____

slope _____

y-int _____

y-int _____

Write an equation in slope-intercept form for the line that satisfies each set of conditions.

16. slope = $-\frac{2}{3}$ and passes through the point $(6, -8)$

17. passes through the points $(7, -2)$ and $(3, -1)$

18. passes through the points $(-2, 4)$ and $(3, 4)$

19. x-intercept = $(-5, 0)$ and y-intercept = $(0, 7)$

20. passes through the point $(-8, -7)$ and is perpendicular to the graph of $y = 4x - 3$

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21. Find the slope of a line that is parallel to the line $3x - 2y = 8$

22-23 A local gym charges an initial registration fee and then a monthly fee for membership. Three months of membership costs \$225, and 7 months costs \$365. Find the following:

22. Write an equation in slope-intercept form that represents the cost for x months of membership.

23. Find the cost for a 10 month membership.

**** **Make sure you look over graphing linear equations!!**